REPORT SUMMARY

The California Department of Water Resources (DWR) operates the Oroville Facilities, a multipurpose water supply, flood control, power generation, recreation, fish and wildlife enhancement, and salinity control project. The hydroelectric facilities operate under a license from the Federal Energy Regulatory Commission (FERC). The license expires on January 31, 2007. Pursuant to the Federal Power Act, DWR is required to file an application for a new license on or before January 31, 2005. DWR commissioned this study as part of a collaborative relicensing process for the preparation of a license application to be submitted to FERC for the Oroville Facilities (FERC Project No. 2100). Seventy-two background studies have been or are being conducted, 19 of which are related to recreation and recreation-related socioeconomics. This document presents the results of Relicensing Study R-17: *Recreation Needs Analysis*. The report is needed because FERC regulations require that licensees develop a comprehensive recreation plan for their facilities during the relicensing process (Subpart F, Section 4.51 of 18 Code of Federal Regulations [CFR]).

The Recreation Needs Analysis contributes to the development of a new recreation plan for the Oroville Facilities area, or Oroville Facilities Recreation Management Plan (RMP). This capstone study synthesizes the major results of the other technical resource recreation studies completed during the relicensing process. It should be noted that the recreation needs noted in this study may or may not be in the Oroville Facilities RMP that will be submitted to the FERC with the final license application. This is because various options for satisfying some of the identified recreation needs may require further exploration as to their best fit, feasibility, and cost effectiveness.

Typical public recreation needs may be related to items such as: providing adequate public heath and safety, compliance with the Americans with Disabilities Act (ADA), protecting natural and cultural resources in recreation areas, providing adequate public access to Project lands and shorelines, and providing and maintaining adequate public recreation facilities and use areas. For the purposes of FERC relicensing, a public recreation need is typically related to Project operations, the Project water bodies and is water-related. A public recreation need is also typically within or immediately adjacent to the FERC boundary.

Potential recreation resource actions that are aimed at enhancing economic development in the area or region, or in meeting recreation needs originating outside the Oroville Facilities area, are not considered recreation needs in this study and are not included in the results.

The objective of this study is to develop a comprehensive list of both overall and site-specific public recreation-related needs in the Oroville Facilities study area.

The report identifies and estimates existing and future public recreation facilities and services that are likely to be needed in the study area through the term of the anticipated new license.

Several FERC relicensing studies were reviewed and used to define public recreation needs in the study area:

- ∉ SP-R-1-Vehicular Access Study
- ∉ SP-R-2-Recreation Safety Assessment
- ∉ SP-R-3-Assess Relationship of Project Operations and Recreation
- ∉ SP-R-5-Recreation Areas Management Assessment
- ∉ SP-R-6-ADA Accessibility Assessment
- ∉ SP-R-7-Reservoir Boating
- ∉ SP-R-8-Recreation Carrying Capacity
- ∉ SP-R-9-Exisiting Recreation Use
- ∉ SP-R-10-Recreation Facility and Condition Inventory
- ∉ SP-R-11-Recreation and Public Use Impact Assessment
- ∉ SP-R-12-Projected Recreation Use
- ∉ SP-R-13-Recreation Surveys
- ∉ SP-R-14-Assess Regional Recreation and Barriers to Recreation
- ∉ SP-R-15-Recreation Sustainability Study
- ∉ SP-R-16-Whitewater and River Boating
- ∉ SP-R-19 Fiscal Impacts (selected data)
- ∉ SP-L-1 Land Use (selected data)
- ∉ SP-L-2 Land Management (selected data)
- ∉ Terrestrial and Cultural Studies (selected data in GIS-based suitability analysis)

Results from this study are intended to synthesize and help address Issue Statements identified by the Recreation and Socioeconomics Work Group (RSWG):

- ∉ Assess the adequacy of existing Project recreation facilities, opportunities, and access to accommodate current use and future demand;
- ∉ Assess the adequacy of public safety at the study area recreational facilities:
- ∉ Assess the effects of facilities operations on recreation and socioeconomic opportunities;

- ∉ Assess the adequacy of operations and maintenance (O&M) and clean-up activities associated with existing and new recreation areas;
- ∉ Identify options for appropriate recreation funding, development, and management structure, and the resulting specific recreation activities; and
- ∉ Identify options for appropriate management of fisheries and wildlife resources to provide recreational opportunities.

The study area for this analysis is divided into six resource areas: Lake Oroville, Thermalito Diversion Pool, Low Flow Channel, Thermalito Forebay, Oroville Wildlife Area (OWA), and Thermalito Afterbay.

To identify public recreation needs in the study area, a two-step process was used:

- ∉ Analyze other relicensing study results and conclusions to identify and synthesize results regarding overall "big picture" public recreation needs in the study area and options to accomplish those needs; and
- ∉ Based on these overall recreation needs, identify conclusions about specific public recreation needs (sometimes with options) on a site-by-site basis based on the overall needs in the study area.

Existing public recreation needs were identified and potential future recreation needs projected over the anticipated term of the new license. Existing needs are defined as priority needs and would be addressed during the current timeframe through 2010. Potential future needs are defined as lower priority needs and are projected out by future decade (2011 to 2020, 2021 to 2030, etc.) based on when the need is anticipated to occur, but subject to the results of a future recreation monitoring program.

Four types of recreation needs have been defined in this study:

- ∉ Capital improvements;
- ∉ Operations and maintenance (O&M);
- ∉ Programmatic; and
- ∉ Other considerations.

A capital improvement need is a one-time expense that may include actions such as renovating, upgrading, or expanding an existing facility, or constructing a new facility. An O&M need includes items that are ongoing or periodic such as trash pick-up, cleaning of restrooms, etc. Other considerations are potential actions that would enhance the public's recreational experience in the study area, but are considered lesser priority needs. A programmatic need includes monitoring use levels, opportunities for periodic stakeholder input, clarifying recreation management responsibilities, etc.

Summary of Overall Recreation Needs by Activity Type

Several different types of public recreation activities were considered in the analysis including:

- ∉ Camping (at developed and dispersed undeveloped shoreline sites);
- ∉ Boating;
- ∉ Swimming and sunbathing;
- ∉ Interpretation and education (I&E) (including programs and signs);
- ✓ Non-motorized trail use (including hiking, walking, mountain biking, and equestrian);
- ∉ Fishing (boat and bank); and
- ∉ General use of open space (including hunting, wildlife observation and photography, birding, and other dispersed activities).

A complete list of the overall recreation-related needs by activity type is summarized in Table 5.2-1 in this report. Recreation needs by site are further defined and summarized in Table 6.1-1 in this report. The latter table is also included in this Report Summary at the end (Table RS-1).

Camping

Regarding camping, estimates of projected (future) use at developed campgrounds in the Lake Oroville resource area indicate that most sites will be at or exceeding their facility capacity prior to the end of the new anticipated license term (assumed to be 2050 for planning purposes). While existing camping capacity appears adequate and facilities are well-maintained, development of new developed campsites is a management option that should be considered to help address the anticipated need for additional camping capacity in the future. By 2050, it is estimated that approximately 75-100 new campsites may be needed (based on future monitoring results) in the Lake Oroville resource area to meet demand for camping based on current projections. Primary areas to consider for camping include the Loafer Creek and Lime Saddle recreation areas. At undeveloped dispersed campsites in the study area, site hardening, increased visitor education, and increased enforcement and management presence should be considered to minimize recreation-related impacts to resources and to enhance visitor safety. Dispersed camping problems are primarily at the OWA.

Day Use and Picnicking

Day use recreation facilities are generally in good condition throughout the study area. However, the eastern portion of Lake Oroville lacks existing day use and picnicking facilities. Developed day use facilities with shoreline access are

desired, though in limited supply at Lake Oroville. Several sites may be improved to enhance day use opportunities in this area. At the Diversion Pool, no day use facilities exist except for a vault toilet building. Additional day use facilities in this area are needed including access from Lakeland Boulevard. The Thermalito Forebay and Afterbay provide day use facilities and are in generally good condition. These facilities provide substitute shoreline day use access when the pool level is low at Lake Oroville; however, they are remote from Lake Oroville. Some facility enhancements are proposed in these areas.

Boating

Boating facilities are numerous and are generally in good condition at Lake Oroville. These facilities are well distributed throughout the study area, except for the North Fork and the Middle Fork of Lake Oroville where road access is minimal. Boating facilities are generally concentrated in areas close to main access routes and the city of Oroville. Demand for boating is projected to continue to increase over the anticipated term of the new license. Boating activity is also strongly affected by changes in reservoir pool level at Lake Oroville and can vary by water year, affecting access at some boat ramps and car-top boat ramp sites. Multi-level ramps have been constructed to facilitate use at different water-levels, and several boat ramps have recently been extended to provide access at lower pool levels. Management considerations related to future boating improvements and management include providing additional parking and further extending ramp lanes at some Lake Oroville boat ramps, reducing allowed boat speeds at Thermalito Afterbay, and providing improved car-top boat launching at the Diversion Pool.

Swimming and Sunbathing

Swimming and sunbathing opportunities are provided at Lake Oroville and the Thermalito Forebay and Afterbay. Pool level fluctuations at Lake Oroville make swim areas, in particular Loafer Creek, unusable at certain times of the year or in a low water year. Thermalito Forebay and Afterbay provide swimming opportunities throughout all of the summer months as their pool levels are more stable. Various options exist to enhance swimming opportunities at the Project such as providing new swimming facilities at the Loafer Creek and/or potentially Lime Saddle recreation areas that would not be affected by reservoir drawdown. Additionally, improvements at some car-top boat ramps could be made to enhance swimming opportunities at these sites. Another consideration is to assess the feasibility of providing warmer water swimming at the North Thermalito Forebay. Finally, options may be considered to preserve water quality and reduce summer bacteria levels at certain swim areas in the study area.

Interpretation and Education

I&E-related facilities and programs, such as informational kiosks, signage, information dissemination, and interpretive trails or campfires, have the potential to enhance visitor experiences and help modify visitor behavior to increase human safety and protect natural and cultural resources. An overall I&E program is proposed that would address issues such as options for a visitors center, programs for disseminating information, directing visitors to appropriate facilities, educating visitors about cultural resource protection, and others.

Non-motorized Trails

The study area has a significant amount of multi-use, non-motorized trails. Most trails are in good condition and user conflicts are low. However, some trail loop connections are missing, and trail access could be improved in some locations. A Comprehensive Non-Motorized Trails Program is proposed to address the entire trails network. It would explore the possibility of developing new trails and looking at trail use zoning, among others.

<u>Fishing</u>

Fishing (boat and bank) is a very popular activity in the study area as many opportunities exist at the Project reservoirs and along the Low Flow Channel and greater Feather River. Public safety issues at peak fishing periods have been noted, particularly in the OWA, requiring additional management presence and/or law enforcement during peak use periods. Other fishing-related enhancements proposed include additional signage, trash pickup, shoreline access sites, fish cleaning stations, and ADA-compliant fishing piers or platforms. Many of the boating-related improvements will also enhance fishing opportunities.

General Open Space Activities

The study area contains a significant amount of undeveloped public open space that is mostly available for general public use. However, steep slopes are common in the Lake Oroville area and generally limit public access to a smaller area. In addition to providing open space-dependent recreation opportunities, such as wildlife observation and hunting, open space areas provide habitat for many wildlife species. As the population continues to increase over time, these public areas become more important and should be preserved. A few needs were identified related to hunting, including opening some locked gates earlier to provide improved access to the OWA during hunting season, providing additional law enforcement, and improved litter pickup, primarily at the OWA. Additionally, OHV use was noted where not allowed or appropriate. As a result, certain sensitive areas should be barricaded to minimize OHV use, while OHV riding opportunities continue to be provided at the Clay Pit SVRA (the SVRA is outside the FERC boundary).

<u>Summary of Recreation Needs for Capital Improvements, Operations and Maintenance, and Programmatic Actions</u>

Below is a brief summary of the public recreation needs for the Oroville Facilities area that were identified in this study. A more detailed list of facility capital improvements, ongoing O&M, and programmatic recreation-related needs by site is summarized in Table 6.1-1 of this report and is also included in this Report Summary at the end (Table RS-1).

Recreation Facility Capital Improvement Needs

- ∉ Harden some existing dispersed use sites to minimize resource impacts and to provide additional visitor access. Monitor user impacts over the term of the anticipated new license and harden or close some sites as necessary.
- ∉ Enhance existing boat ramps (specifically at Lake Oroville) by extending ramp lanes where and when feasible, providing additional parking when needed, improving car-top boat ramps, and installing additional boarding docks at specific sites, among other actions.
- If feasible and cost-effective, provide or improve swimming opportunities at Lake Oroville and North Thermalito Forebay. Consider cost-effective and feasible options to meet this need.
- ∠ As part of a proposed I&E Program, provide various program elements including kiosks, signs, and information dissemination.
- As part of a proposed Comprehensive Non-Motorized Trails Program, improve trail-related opportunities such as new trail loop connections, improved trail access at some locations, and trailheads.

- Where feasible and cost-effective, consider clustering of and connections between developed recreation facilities (e.g., picnic areas, trails, campgrounds, group camps, boat ramps, etc.) to provide increased

- synergy among recreation opportunities and to enhance visitor satisfaction.
- Provide additional camping capacity (approximately 75-100 new campsites) at Lake Oroville recreation areas over the anticipated term of the new license when the need is demonstrated by a proposed monitoring program. Provide additional group campsites when needed as well.

Recreation Operations and Maintenance and Programmatic Needs

- ✓ Periodically monitor recreational use, visitor perceptions, and resource impacts through the anticipated new license term, to determine when existing sites should be improved or enhanced, when new sites should be constructed, or when resource impacts require mitigation.
- Provide additional visitor management and law enforcement presence, especially in the OWA and during specific seasons of use (e.g., fishing and hunting seasons).
- ✓ Provide opportunities for periodic stakeholder input regarding the management of recreation resources over the term of the anticipated new license.
- ∠ Develop and implement additional measures related to managing resource impacts (e.g., OHV use impacts, litter accumulation and dumping, dispersed use impacts, etc.) and enhancing visitor safety (e.g., incident and accident reporting, visitor management control, wildland fire evacuation, etc.).



		Table RS-1. Summary of Existing and Potential Future Recreation Needs on a Site-by-Site Basis in the Oroville Facilities A							
		Existing Recreation	on Needs or Deficiencies (C	urrent to 2010)'	Potential Future	Recreation Needs (2011			B. (
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
Lake Oroville									
Bidwell Canyon BR / Campground / DUA / Marina Complex	OR-1								
·	OR-1a	No additional campsites at the Bidwell Canyon Campground are needed in the near term, except for potential relocation of existing campsites (approximately 50) nearby to provide space for marina parking needs						Provide adequate camping, day use and boating facilities	Study R-10, Section 5.1.1; Study R-8, Section 5.2.2.1; Study R-7, Sections 5.5.1.1 and 6.2
	OR-1b		Provide continued annual O&M Continue to periodically monitor use levels at the Bidwell Canyon BR/DUA/ Campground/Marina Complex			Provide continued annual O&M Continue to periodically monitor use levels at the Bidwell Canyon BR/DUA/ Campground/Marina Complex		Provide adequate annual O&M Provide periodic monitoring	Study R-8, Sections 5.2.2.1 and 6.3; FERC guidelines
	OR-1c	Provide approximately 190 new vehicle parking spaces for use by Bidwell Canyon BR/DUA/Marina visitors						Provide adequate boating and day use facilities	Study R-7, Section 5.5.1.1; Study R-8, Section 5.5.2.1
	OR-1d	Reconstruct a new water-ski course near the Bidwell Canyon Marina, or other suitable location						Provide adequate boating facilities; Provide for resource protection	Study T-9; Resource integration
	OR-1e			Consider modifying the existing group use meeting hall (currently used for DPR storage) as a new campground activity facility				Provide adequate camping facilities; Provide for I&E	Professional judgment; Study R-13, Section 5.1.8

	I	Evicting Decreeti	on Needs or Deficiencies (C	ant to 2010\1	Detential Ferture	Decreation Needs (2014)	to Licence Term\1	Overall Lang to	
Area/Site Location & Programmatic Needs	Reference Number	Existing Recreati	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Recreation Needs (2011) Operations and Maintenance / Programmatic	Other Considerations	Overall Long-term Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	OR-1f		Provide more frequent adjustment of the boarding dock(s) at the boat ramp as needed					Provide adequate annual O&M Provide adequate boating facilities	Study R-7; Study R-10; Field observations
	OR-1g	Provide an additional boarding dock(s) if feasible to maximizing boat launching capacity						Provide adequate boating facilities	Study R-7, Section 5.3.3
	OR-1h		Provide increased debris removal at boat ramps and adjacent facilities					Provide adequate annual O&M Provide adequate boating facilities	Field observations; Studies R-7 and R-10
	OR-1i			Consider providing upgrades to ADA accessibility at the marina				Provide enhanced accessibility	Study R-6, Table 5.3-3
	OR-1j		Provide boaters with additional information about substitute boating facilities and changing access conditions			Provide boaters with additional information about substitute boating facilities and changing access conditions		Provide for I&E	Study R-3, Section 5.2.2.2, Tables 5.2-2, 5.2- 3, R7 – Section 5.4.9, Table 5.4- 18
	OR-1k			Consider providing temporary event grandstand space for use by concessionaires or event organizers during fishing tournaments			Consider providing temporary event grandstand space for use by event organizers during fishing tournaments	Provide enhanced fishing opportunities; Provide for I&E	Professional judgment
	OR-11				Consider constructing new Bidwell Canyon campsite capacity elsewhere due to spatial capacity constraints at Bidwell Canyon, such as nearby Loafer Creek, and when monitoring results demonstrate a clear need			Provide adequate camping facilities	Study R-8, Section 5.5.1.1

			Existing Recreation Needs or Deficiencies (Current to 2010) ¹			Recreation Needs (2011 t		Overall Long-term	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
Loafer Creek BR / DUA / Campground / Group Campground / Equestrian Campground Complex	OR-2								
	OR-2a	Provide ADA- accessibility enhancements at the Loafer Creek Group and Equestrian Campgrounds						Provide for accessibility	Study R-6, Sections 5.3.1.3 and 6.0; Table 6.0-1
	OR-2b	Provide 2 new group RV campsites with utilities at the Loafer Creek Complex						Provide adequate camping facilities	Study R-8, Section 5.2.2.3
	OR-2c		Provide continued annual O&M Periodically monitor use and impacts at the Loafer Creek boat ramp, DUA and campgrounds			Provide continued annual O&M Periodically monitor use and impacts at the Loafer Creek boat ramp, DUA and campgrounds		Provide adequate annual O&M Provide periodic monitoring	Study R-8, Sections 5.2.2.3, 5.5.2.3, and 6.3; FERC guidelines
	OR-2d	Conduct a feasibility study of potential swim facility options to provide improved swimming opportunities at Loafer Creek DUA during the primary 4- month recreation season						Provide adequate swimming facilities; Provide adequate shoreline access	Study R-3, Section 5.2.5, Table 5.2-6
	OR-2e			Consider providing a new campground activity facility				Provide adequate camping facilities; Provide for I&E	Professional judgment; Study R-13, Section 5.1.8
	OR-2f	Provide improved shoreline access and ADA-accessibility to the day use area and swimming beach, and cove						Provide for accessibility; Provide adequate shoreline access	Study R-6, Section 5.3.3.6

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Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	OR-2g	Provide low-water reservoir boating access in the Loafer Creek area to 750 feet msl						Provide adequate boating facilities	Study R-7, Section 5.3.4, Table 5.3-4; Study R-3, Section 5.2.2.2, Table 5.2-2
	OR-2h		Provide more frequent adjustment of the boarding dock(s) at the boat ramp as needed			Provide more frequent adjustment of the boarding dock(s) at the boat ramp as needed		Provide adequate annual O&M Provide adequate boating facilities	Professional judgment; Field observations
	OR-2i	Provide additional boarding dock(s) if feasible to maximize launching capacity						Provide adequate boating facilities	Study R-7, Section 5.3.3
	OR-2j		Provide boaters with additional information about substitute boating facilities and changing reservoir conditions			Provide boaters with additional information about substitute boating facilities and changing reservoir conditions		Provide for I&E	Study R-3, Section 5.2.2.2, Tables 5.2-2, 5.2- 3; Study R7 – Section 5.4.9, Table 5.4-18
	OR-2k		Provide increased debris removal at boat ramps and adjacent facilities			Provide increased debris removal at boat ramps and adjacent facilities		Provide for public health and safety; Provide adequate annual O&M Provide adequate boating facilities	Professional judgment; Field observations
	OR-2I				Consider constructing approximately 50 new campsites and re-evaluating the current mix of campsite types based on monitoring results			Provide adequate camping facilities	Study R-8, Sections 5.2.2.3 and 6.3
	OR-2m				Consider providing a new fish cleaning station if fish waste becomes a problem			Provide adequate resource protection; Provide enhanced fishing opportunities	Professional judgment; Resource protection
	OR-2n				Consider providing 2 additional group campsites in the Loafer Creek Complex if needed based on monitoring results			Provide adequate camping facilities	Study R-8, Section 5.2.2.3

			on Needs or Deficiencies (C			Recreation Needs (2011 t		Overall Long-term	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	OR-20				Consider providing additional parking at the boat ramp when monitoring results demonstrate a need			Provide adequate boating facilities	Study R-17, Sections 5.5.1.1, 5.5.1.4, Table 5.5-2
Lime Saddle BR / DUA / Campground / Marina Complex	OR-3								
	OR-3a		Provide continued annual O&M Periodically monitor use levels and impacts at the Lime Saddle Complex			Provide continued annual O&M Periodically monitor use levels and impacts at the Lime Saddle Complex		Provide adequate annual O&M Provide periodic monitoring	Study R-8, Section 6.3; FERC guidelines
	OR-3b	Upgrade existing picnic tables and shade structures while maintaining views at Lime Saddle DUA						Provide adequate day use facilities	Professional judgment
	OR-3c	Restore the Lime Saddle Marina that was damaged by a wind storm, cooperating with DPR and the concessionaire						Provide adequate annual O&M Provide adequate boating facilities; Provide for public health and safety	Study R-10, Table 6.0-2
	OR-3d			Consider providing temporary event grandstand space during fishing tournaments for use by event organizers			Consider providing temporary event grandstand space during fishing tournaments for use by event organizers	Provide for I&E Provide enhanced fishing opportunities	Professional judgment
	OR-3e		Provide more frequent adjustment of the boarding dock(s) at the boat ramp as needed			Provide more frequent adjustment of the boarding dock(s) at the boat ramp as needed		Provide adequate annual O&M Provide adequate boating facilities	Professional judgment; Field observations
	OR-3f			Consider upgrades to ADA-accessibility at marina				Provide enhanced accessibility	Professional judgment; ADA accessibility
	OR-3g	Provide additional boarding dock(s) if feasible to maximize launching capacity						Provide adequate boating facilities	Study R-7, Section 5.3.3

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		Existing Recreation	on Needs or Deficiencies (Cu	urrent to 2010)1	Potential Future	Recreation Needs (2011 t	o License Term)	Overall Long-term	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	OR-3h	Provide a new courtesy						Provide adequate	Professional
		dock for use by Lime Saddle Campground visitors below the campground in Parrish Cove, connected by a foot trail to the upper campground						shoreline access; Provide adequate boating facilities	judgment
	OR-3i		Provide increased debris			Provide increased		Provide for public	Professional
			removal at boat ramps and adjacent facilities			debris removal at boat ramps and adjacent facilities		health and safety; Provide adequate annual O&M Provide adequate boating facilities	judgment; Field observations
	OR-3j		Provide boaters with additional information about substitute boating facilities and changing reservoir conditions			Provide boaters with additional information about substitute boating facilities and changing reservoir conditions		Provide for I&E	Study R-3, Section 5.2.2.2, Tables 5.2-2, 5.2- 3; Study R-7, Section 5.4.9, Table 5.4-18
	OR-3k				Consider constructing approximately 25 to 50 new RV/tent campsites and other complex improvements if needed based on monitoring results			Provide adequate camping facilities	Study R-10, Section 5.1.1; Study R-8, Section 5.2.2.2 and 6.3
	OR-3I				•		Consider providing a new campground activity facility, if and when the campground is expanded in the future	Provide adequate camping facilities; Provide for I&E	Professional judgment; Study R-13, Section 5.1.8
	OR-3m				Consider providing 1 new group RV campsite with utilities at the Lime Saddle Complex based on monitoring results, if needed in the future			Provide adequate camping facilities	Study R-8, Section 5.2.2.2; Study R-12, Sections 5.2.2.3 and 5.2.3

			on Needs or Deficiencies (Co			Potential Future Recreation Needs (2011 to License Term)				
Area/Site Location & Programmatic Needs	Reference Number OR-3n	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements Consider providing a new shoreline day use area at Parrish Cove that is linked by trail access to the Lime	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term Provide adequate shoreline access; Provide adequate day use facilities	Reference to Supporting Study Results and Other References Study R-12, Sections 5.2.2.3 and 5.3	
					Saddle Campground and Lime Saddle BR/DUA /Marina					
	OR-3o						Consider providing new swimming opportunities in the future at Lime Saddle during the primary 4-month recreation season; conducting a feasibility study of costs, benefits, and options (Loafer Creek is a higher priority site for potential swimming facilities)	Provide adequate swimming facilities where feasible and cost effective; Provide adequate shoreline access where feasible	Study R-3, Section 5.3; Study R-5, Section 5.3, Figure 5.3-1	
	OR-3p				Consider constructing 50-60 vehicle parking spaces at the Lime Saddle BR/DUA/Marina, consider the adjacent PG&E property		g lacinities	Provide adequate boating and day use facilities	Study R-7, Section 5.5.1.1, Table 5.5-2	
Spillway BR / DUA	OR-4 OR-4a		Provide continued annual O&M Periodically monitor recreation use levels at the Spillway Complex			Provide continued annual O&M Periodically monitor recreation use levels at the Spillway Complex		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines	
	OR-4b	Review RV "En Route" camping at this site due to low use and modify facilities or operations, as needed						Provide adequate camping facilities	Study R-8, Section 5.2.2.6; Study R-9, Section 5.2.1.1, Table 5.2-1	
	OR-4c		Provide more frequent adjustment of the boarding docks at the boat ramp as needed			Provide more frequent adjustment of the boarding docks at the boat ramp as needed		Provide adequate annual O&M Provide adequate boating facilities	Professional judgment; Field observations	

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		Existing Recreation	on Needs or Deficiencies (C	urrent to 2010)	Potential Future	Recreation Needs (2011	to License Term)	Overall Long-term	Defenence to
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	OR-4d		Provide increased debris			Provide increased		Provide for public	Professional
			removal at boat ramps and adjacent facilities			debris removal at boat ramps and adjacent facilities		health and safety; Provide adequate annual O&M Provide adequate boating facilities	judgment; Field observations
	OR-4e		Provide boaters with additional information about substitute boating facilities and changing reservoir conditions			Provide boaters with additional information about substitute boating facilities and changing reservoir conditions		Provide for I&E	Study R-3, Section 5.2.2.2, Tables 5.2-2, Table 5.2-3; Study R-7 – Section 5.4.9, Table 5.4-18
	OR-4f	Extend the boat ramp length below 695 feet msl (when possible)			Extend the boat ramp length below 695 feet msl (when possible)			Provide adequate shoreline access; Provide adequate boating facilities	Study R-7, Section 5.3.4, Tables 5.3-4 and 5.3-5
	OR-4g			Consider providing a floating concessionaire-run store and gas dock at the Spillway BR to serve boaters				Provide adequate boating facilities	Professional judgment; Study R-13, Section 5.1.2.6, Table 5.1-26
Enterprise BR	OR-5								
	OR-5a	Construct 5-10 family picnic sites						Provide adequate shoreline day use facilities	Professional judgment
	OR-5b	Extend the boat ramp length to 750 feet msl to provide a greater likelihood of full summer-season usability						Provide adequate shoreline access; Provide adequate boating facilities	Study R-7, Section 5.3.4, Table 5.3-4; Study R-3, Section 5.2.2.2, Table 5.2-2
	OR-5c	Provide a boarding dock at the boat ramp						Provide adequate boating facilities	Study R-7, Section 5.3.3
	OR-5d	,	Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Nelson Bar Car-top BR	OR-6								
	OR-6a		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines

					Potential Future Recreation Needs (2011 to License Term)				
]		Existing Recreation	on Needs or Deficiencies (C	urrent to 2010)1	Potential Future	Recreation Needs (2011 t	o License Term)	Overall Long-term	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	OR-7								
Vinton Gulch Car-top BR									
	OR-7a	Provide additional directional signs as a component of a proposed I&E Program						Provide for I&E	Professional judgment
	OR-7b		Provide continued annual			Provide continued		Provide adequate	FERC guidelines
			O&M and periodic			annual O&M and		annual O&M Provide	_
			monitoring			periodic monitoring		periodic monitoring	
Dark Canyon Car-top BR	OR-8								
	OR-8a	Providing additional directional signs as a component of a proposed I&E Program						Provide for I&E	Professional judgment
	OR-8b	Replace the vault toilet building that was vandalized						Provide for public health and safety; Provide for resource protection; Provide adequate day use and boating facilities	Professional judgment
	OR-8c		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Foreman Creek Car-top BR	OR-9		The state of the s			Ferrence		personal memory	
	OR-9a	Provide additional visitor education regarding the preservation of cultural and other sensitive resources at the site as a component of the proposed I&E Program						Provide for I&E Provide for resource protection	Professional judgment
	OR-9b		Provide continued annual O&M and periodic monitoring; Provide increased trash pick-up			Provide continued annual O&M and periodic monitoring; Provide increased trash pick-up		Provide adequate annual O&M Provide periodic monitoring	Study R-4, Table 6.1-1; FERC guidelines

			on Needs or Deficiencies (C			Recreation Needs (2011	to License Term)1	Overall Long-term	5.4	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References	
	OR-9c	Improve shoreline conditions and provide other basic day-use amenities to facilitate use of the area, including swimming						Provide adequate day use facilities and shoreline access	Study R-3, Section 5.2.3.4	
Stringtown Car-top BR	OR-10 OR-10a	Provide additional directional signs as a component of a proposed I&E Program						Provide for I&E	Professional judgment	
	OR-10b	Repair or replace the crumbling asphalt road and eroding road bed within the inundation zone						Provide adequate annual O&M Provide adequate boating facilities; Provide for resource protection	Study R-3, Section 5.2.3.5; Study R10, Section 5.1.4.16	
	OR-10c		Provide continued annual O&M and periodic monitoring; Periodically monitor water quality at this location that is used for swimming			Provide continued annual O&M and periodic monitoring; Periodically monitor water quality at this location that is used for swimming		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines; Resource protection; Preliminary data from the Environmental Work Group; Studies W-1 and W-3	
Lake Oroville Visitors Center	OR-11 OR-11a				Consider providing additional parking capacity in the future			Provide for I&E Provide adequate day use facilities	Study R-8, Section 5.4.2.1, Table 5.4-1; Study R-12, Sections 5.3.1.4 and 5.3.2, Table 5.3-2	
	OR-11b						Consider alternative uses and locations for the Visitors Center as part of the proposed I&E Program	Provide for I&E Provide for resource protection	Study R-10, Table 6.0-2	
	OR-11c		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines	

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			ry of Existing and Pote						I
Arca/Cita Lacation 9	Reference	Existing Recreation	on Needs or Deficiencies (Co	,	Potential Future	Recreation Needs (2011 Operations and	to License Term)	Overall Long-term Need or Current Deficiency Being Addressed During the	Reference to Supporting Study Results and Other
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Maintenance / Programmatic	Other Considerations	Capital Improvements	Maintenance / Programmatic	Other Considerations	Anticipated New License Term	References
Saddle Dam Trailhead Access	OR-12								
	OR-12a	Construct short developed trails to access the shoreline						Provide adequate shoreline access	Study R-11. Sections 6.1.2.3, 6.2.1
	OR-12b		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Bloomer Area BICs	OR-13 OR-13a		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Goat Ranch BIC	OR-14 OR-14a		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Foreman Creek BIC	OR-15 OR-15a		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Craig Saddle BIC	OR-16 OR-16a		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Oroville Dam Overlook DUA	OR-17		g			pondatomonitomig		ponedio monitoring	
	OR-17a				Consider constructing 30-50 additional vehicle parking spaces			Provide for I&E Provide adequate day use facilities	Study R-8, Section 5.4.2.3, Table 5.4-1; Study R-12, Sections 5.3.1 and 5.3.2, Table 5.3-2
	OR-17b		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Floating Campsites	OR-18 OR-18a	Provide two or three additional floating campsites on Lake Oroville						Provide adequate boating and camping facilities; Provide adequate shoreline access	Study R-7, Section 5.2, Table 5.2-13

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			on Needs or Deficiencies (C			Recreation Needs (2011		Overall Long-term	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	OR-18b		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Upper North Fork Arm Below Poe Powerhouse	OR-19 OR-19a						Consider providing a	Provide adequate	Study R-16,
	OK-19a						future boater take-out, if feasible, or a potential non-motorized watercraft tow service for whitewater boaters who run the North Fork Feather River from the PG&E Poe Powerhouse to the Lake Oroville flatwater	shoreline access; Provide adequate boating facilities	Section 6.1.3
	OR-19b						Consider obtaining and providing real time river flow data below the PG&E Poe Project powerhouse (coordinate and obtain from PG&E) and providing Lake Oroville reservoir pool level data for use by whitewater boaters; Provide this information to the public via the Internet, flow phone, or other means	Provide for I&E	Study R-16, Section 6.1.3
	OR-19c		Provide periodic monitoring			Provide periodic monitoring		Provide periodic monitoring	FERC guidelines

	T		on Needs or Deficiencies (C	to License Term) ¹	Overall Long-term				
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
Diversion Pool									
Diversion Pool DUA	DP-1 DP-1a	Construct additional day use facilities including approx. 5-10 new picnic tables with pole grills and a gravel car-top boat ramp near the vault toilet building along the Diversion Pool along the Burma Road						Provide adequate day use and boating facilities; Provide adequate shoreline access	Professional judgment; Study R-13, Section 5.1.2.6, Table 5.1-28.
	DP-1b		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
	DP-1c	Consider providing an ADA-accessible fishing pier or platform						Provide for accessibility; Provide enhanced fishing opportunities	ADA accessibility; Professional judgment
Lakeland Blvd. Trail Access Area	DP-2 DP-2a	Provide a new southern shoreline day use/picnic site with cartop boat launching at the Diversion Pool and direct road access from the Lakeland Boulevard Trailhead Access area						Provide adequate day use and boating facilities; Provide adequate shoreline access	Professional judgment
	DP-2b		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	
	DP-2c	Provide expanded trailhead facilities at the Lakeland Boulevard Trailhead Access site to access the Diversion Pool						Provide adequate shoreline access	Professional judgment

		Table R5-1. Summary of Existing and Potential Putture Recreation Needs on a Site-by-Site Basis in the Orovine Paclifites Al							
		Existing Recreation	on Needs or Deficiencies (C	urrent to 2010)	Potential Future	Recreation Needs (2011	to License Term)	Overall Long-term	D. (
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
Low Flow Channel / Fea	ather River					-			
Feather River Fish Hatchery	FR-1								
	FR-1a		Provide continued annual O&M and periodic monitoring; Also, potential I&E-related enhancements would be considered here under the proposed I&E Program			Provide continued annual O&M and periodic monitoring; Also, potential I&E-related enhancements would be considered here under the proposed I&E Program		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines; see proposed I&E program
Riverbend Park	FR-2 FR-2a		Continue to coordinate with the FRRPD and other interested parties in the planning, design, and construction of Riverbend Park					Provide enhanced shoreline access; Provide for I&E Provide for resource protection; Provide adequate day use facilities	Professional judgment
Thermalito Forebay									
North Thermalito Forebay BR / DUA / Aquatic Center / "En- Route" Campground	TF-1								
Noute Gampground	TF-1a		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
	TF-1b	Evaluate options to potentially warm the water for enhanced swimming opportunities and help protect water quality in the swim area	×					Provide adequate swimming facilities; Provide for public health and safety; Enhance swimming opportunities	Study R-3, Sections 5.1.1.2, 5.2.6.1, Table 5.1-3
	TF-1c	Provide new non- motorized trail loop opportunities in the Thermalito Forebay area as a component of the proposed trails program						Provide adequate shoreline access	Study R-13, Section 5.1.2.6

			ion Needs or Deficiencies (C		Potential Future Recreation Needs (2011 to License Term) ¹			Overall Long-term	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance /	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	TF-1d	Provide additional shoreline trail access points						Provide adequate shoreline access	Study R-3, Report Summary; Study R-4, Table 6.1-1
	TF-1e			Consider providing basic improvements to the Aquatics Center to complete the facility for basic needs				Provide for I&E Provide enhanced boating opportunities	Professional judgment; Field observations
	TF-1f				Consider providing a fish cleaning station if waste problems are encountered			Provide for resource protection; Provide enhanced fishing opportunities	Professional judgment; Resource protection
	TF-1g				Consider options for camping in the future to potentially replace current RV "En Route" camping at this site			Provide adequate camping facilities	Study R-8, Section 5.2.2.5; Study R-9, Section 5.2.1.3 and Table 5.2-3
South Thermalito	TF-2								
Forebay BR / DUA	TF-2a	Provide an ADA accessible fishing pier or platform						Provide for accessibility; Provide enhanced fishing opportunities	FERC guidelines; professional judgment; Study R-6
	TF-2b		Provide continued annual O&M and periodic monitoring; Provide periodic water quality monitoring			Provide continued annual O&M and periodic monitoring; Provide periodic water quality monitoring		Provide adequate annual O&M Provide periodic monitoring	Study W-3, selected data on sites with water quality concerns; FERC guidelines
	TF-2c	As a component of a proposed Comprehensive Non-Motorized Trails Plan, provide new trail opportunities in the South Thermalito Forebay area						Provide adequate shoreline access	Study R-13, Section 5.1.2.6
	TF-2d	Provide improved day use and swimming facilities at the South Forebay to enhance visitor use of the area						Provide adequate day use and swimming facilities	Professional judgment; Resource protection

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		Existing Recreation Needs or Deficiencies (C				urrent to 2010) ¹ Potential Future Recreation Needs (2011 to License Term) ¹				
		Existing Recreation	on Needs or Deficiencies (C	urrent to 2010)	Potentiai Future	Recreation Needs (2011	to License Term)	Overall Long-term Need or Current	Reference to	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Deficiency Being Addressed During the Anticipated New	Supporting Study Results and Other References	
Thermalito Afterbay										
Wilbur Road BR	TA-1 TA-1a	As a component of the proposed I&E Program, provide a directional sign(s)						Provide for I&E	Study R-1, Table 6.3-1	
	TA-1b		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines	
	TA-1c		Reduce boat speeds on the Thermalito Afterbay					Provide for resource protection	Study R-4, Section 5.2.7.4; Resource integration	
	TA-1d				Consider constructing 5-10 additional vehicle parking spaces			Provide adequate boating and day use facilities	Study R-7, Section 5.5.1.1, Table 5.5-2	
Larkin Road Car-top	TA-2									
BR	TA-2a	Construct 5-10 new family picnic tables with shade structures at this site						Provide adequate day use facilities	Professional judgment	
	TA-2b	As a component of the proposed I&E Program, provide new directional signs						Provide for I&E	Professional judgment	
	TA-2c	orgino	Reduce boat speeds on the Thermalito Afterbay					Provide for resource protection	Study R-4, Section 5.2.7.4	
	TA-2d		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines	
	TA-2e	Provide a swim beach area and other day-use enhancements	V					Provide adequate day use and swimming facilities	Study R-11, Section 5.2.2.1, Table 5.2-2	
Monument Hill BR / DUA	TA-3									
	TA-3a		Reduce boat speeds on the Thermalito Afterbay					Provide for resource protection	Study R-4, Section 5.2.7.4	
	TA-3b		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines	

			on Needs or Deficiencies (C			Recreation Needs (2011 t		Overall Long-term	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	TA-4								
Model Aircraft Flying Area									
Area	TA-4a		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
Clay Pit SVRA	TA-5								
	TA-5a		Manage the Clay Pit SVRA to accommodate continued OHV use			Manage the Clay Pit SVRA to accommodate continued OHV use		Provide adequate visitor management; Provide for resource protection	Study R-11, Section 6.1.2
Oroville Wildlife Area									
OWA Afterbay Outlet	WA-1								
BR / DUA / Campsites									
	WA-1a	Evaluate the practice of allowing undeveloped camping in the OWA and implement actions						Provide adequate camping facilities; Provide for resource protection; Provide adequate annual O&M	Professional judgment; Resource protection
	WA-1b		Provide increased visitor management and enforcement in the OWA to enforce fishing and other use restrictions			Provide increased visitor management and enforcement in the OWA to enforce fishing and other use restrictions		Provide adequate visitor management; Provide for resource protection	Study R-4, Table 6.1-1
	WA-1c	As a component of the I&E Program, provide additional directional signs						Provide for I&E	Study R-10, Table 6.0-2
	WA-1d		Provide continued annual O&M and periodic monitoring			Provide continued annual O&M and periodic monitoring		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines
	WA-1e		Evaluate options to provide additional revenue for new services or facilities in the OWA					Provide adequate visitor management; Provide for resource protection; Resolve long-term funding and management issues	Study R-5, Section 6.2.1.4; Professional judgment

			on Needs or Deficiencies (C	Existing Recreation Needs or Deficiencies (Current to 2010) ¹			o License Term)	Overall Long-term	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
OWA River, Pond Access, and General	WA-2								
Dispersed Sites	WA-2a	Provide additional trash receptacles and signage, particularly along the river, at access points where trash accumulation appears to be a problem	Provide additional trash pickup, particularly along the river, at access points where trash accumulation appears to be a problem					Provide adequate annual O&M Provide for resource protection	Study R-4, Table 6.1-1; Study R- 11, Sections 6.1 and 6.2
	WA-2b	As part of the I&E Program, post both regulatory and educational signs detailing illegal fishing practices and consequences of using these practices						Provide for I&E Provide for resource protection	Study R-4, Table 6.1-1
	WA-2c		Provide more enforcement at these sites to enforce fishing and other regulations			Provide more enforcement at these sites to enforce fishing and other regulations		Provide adequate visitor management; Provide for resource protection	Study R-4, Table 6.1-1
	WA-2d		Provide continued annual O&M As a component of a recreation monitoring program, provide periodic monitoring to assess future needs, particularly the Afterbay outlet area			Provide continued annual O&M As a component of a recreation monitoring program, provide periodic monitoring to assess future needs, particularly the Afterbay outlet area		Provide adequate annual O&M Provide periodic monitoring	FERC guidelines; Resource protection
	WA-2e	Erect vehicular barriers to selected areas in the OWA						Provide for resource protection	Study R-11, Section 6.1.2.1
	WA-2f		Open locked gates in the OWA earlier during the peak use hunting season to accommodate hunters			Open locked gates in the OWA earlier during the peak use hunting season to accommodate hunters		Enhance hunting opportunities	Study R-4, Section 6.1.8, Table 6.1-1

			on Needs or Deficiencies (C			Recreation Needs (2011		Overall Long-term	$\overline{}$	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References	
	WA-2g			Consider locating and operating 2 ADA-accessible Watchable Wildlife sites within the OWA as part of the proposed I&E Program				Provide for accessibility; Provide for I&E	Professional judgment; ADA accessibility	
	WA-2h						Consider constructing 2 additional ADA- accessible Watchable Wildlife sites within the OWA	Provide for accessibility; Provide for I&E	Professional judgment; ADA accessibility	
Rabe Road Shooting	WA-3									
Range	WA-3a		Continue to provide this site as a public shooting range			Continue to provide this site as a public shooting range		Provide adequate visitor management; Provide for resource protection	Study R-11, Section 6.2.1	
	WA-3b		Provide more trash receptacles and provide additional litter pick-up at this site			Provide more trash receptacles and provide additional litter pick-up at this site		Provide adequate annual O&M Provide for resource protection	Study R-11, Section 6.2.1	
Dispersed Use Sites - G	Seneral				*					
	DU-1	Provide more trash receptacles at dispersed use areas, where needed	Provide continued annual O&M Provide more trash pick-up and provide additional scattered litter pick-up at dispersed use areas, where needed			Provide continued annual O&M		Provide adequate annual O&M	Study R-11, Sections 6.1 and 6.2	
	DU-2		Provide periodic monitoring; Periodically monitor study area for potential new dispersed use sites			Provide periodic monitoring; Periodically monitor study area for potential new dispersed use sites		Provide periodic monitoring	FERC guidelines; Professional judgment; Resource protection	
Programmatic Needs		·								
	P-1		Clarify agency recreation- related management responsibilities and long- term funding					Provide adequate annual O&M Address long-term funding problems; Provide clarity of responsibilities of agencies	Studies R-4 and R-5	

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			on Needs or Deficiencies (C			Recreation Needs (2011 t	o License Term)1	Overall Long-term		
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References	
	P-2	Develop a proposed Recreation Monitoring Program; Implement proposed capital measures	Develop a proposed Recreation Monitoring Program; Implement proposed O&M-related measures		Continue to implement proposed Recreation Monitoring Program - capital measures	Continue to implement proposed Recreation Monitoring Program - O&M-related measures		Provide periodic monitoring	FERC guidelines; Resource protection	
	P-3		Implement additional programmatic recreation-related operations and maintenance actions including: (1) managing OHV use impacts, (2) managing litter accumulation and dumping, (3) managing user defined trails, and (4) managing dispersed site pioneering and creep			Continue to implement proposed management actions		Provide for resource protection; Provide adequate annual O&M Provide adequate visitor management	Studies R-4 and R-11; Resource protection; Resource integration	
	P-4		Implement additional safety-related actions over time including: (1) improved incident and accident reporting, (2) improved visitor education and management control, and (3) other additional safety-related actions over time			Continue to implement additional safety-related actions as needed		Provide for adequate public health and safety	Study R-2	
	P-5		Develop a proposed Wildland Fire Evacuation Plan for the OWA; Implement the proposed OWA Wildland Fire Evacuation Plan measures			Continue to implement a proposed OWA Wildland Fire Evacuation Plan		Provide for adequate public health and safety; Provide for resource protection	Study R-4	
	P-6	Develop a proposed Comprehensive Non- motorized Trails Program; Implement proposed Trails Program capital measures	Develop a proposed Comprehensive Non- motorized Trails Program; Implement proposed Trails Program O&M measures		Continue to implement proposed Trails Program capital measures	Continue to implement proposed Trails Program O&M measures		Provide adequate shoreline access; Provide for resource protection	Studies R-10, R- 13 and R-14	

		Existing Recreation	on Needs or Deficiencies (C	urrent to 2010)1	Potential Future	Recreation Needs (2011	to License Term)1	Overall Long-term	
Area/Site Location & Programmatic Needs	Reference Number	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Capital Improvements	Operations and Maintenance / Programmatic	Other Considerations	Need or Current Deficiency Being Addressed During the Anticipated New License Term	Reference to Supporting Study Results and Other References
	P-7	Develop a proposed I&E Program; Implement proposed capital measures	Develop a proposed I&E Program; Implement proposed O&M measures		Continue to implement proposed I&E Program capital measures	Continue to implement proposed I&E Program O&M measures		Provide for I&E	Resource protection; Studies R-1, R-2, R-4, R-5, R-10, R-11, R-13, and W-3

¹Capital improvements are actions with one time costs such as construction of a facility; operations and maintenance (O&M) actions are annual or periodic non-construction actions or costs; programmatic actions are program-related actions that address broader needs; and "other considerations" are lesser priority needs that may also be considered.

BACK OF TABLE